

## Author Index

- Abi-Aad, E., 333  
Aboukais, A., 333  
Addai-Mensah, J., 387  
Adler, H.J., 75  
Akiba, U., 219  
Arriagada, F.J., 309  
Avila, L.V.N., 209  
Azehara, H., 219  
  
Belyakova, L.A., 283  
Blake, T.D., 5  
Buess-Herman, C., 149  
  
Caseri, W.R., 87  
Cazabat, A.M., 25  
Chikazawa, M., 13  
Choi, N., 219  
Colic, M., 167  
Counter, J.A., 387  
Courcot, D., 333  
Crepaldi, E.L., 397  
Cross, W.M., 115  
  
de A. Gomes, G., 397  
Decamps, C., 5  
De Coninck, J., 5  
Denoyel, R., 351  
de Ruijter, M., 5  
de Vreugd, C.H., 257, 271  
Dumont, F., 149  
Durville, P.F.M., 257  
  
Eske, L.D., 33  
  
Fujihira, M., 219  
Fuji, M., 13  
  
Galipeau, D.W., 33  
Galtayries, A., 333  
Garg, N., 239  
Geertman, R.M., 271  
  
Gonzalez, G., 127  
Goswami, A., 381  
Gragson, D.E., 175  
Graupe, M., 239  
Grimble, J., 333  
  
Hamouda, A.A., 351  
Hansen, G., 351  
Harris, C.C., 409  
Harris, D.R., 341  
Herman, G.S., 187  
Hermansson, M., 301  
Higashitani, K., 157  
Hild, S., 65  
Hlady, V., 53  
Hokari, H., 219  
Huang, H.-X., 325  
Huang, L., 409  
Hupka, J., 103  
Hu, Y., 137  
  
Ishida, T., 219  
  
Jacobasch, H.-J., 75  
Jenkins, R.D., 363  
Jogikalmath, G., 53  
  
Kanda, Y., 157  
Kanta Pal, M., 381  
Kartio, I., 97, 193  
Keir, R.I., 341  
Kellar, J.J., 115  
Kim, H.I., 239  
Koini, T., 239  
Kojima, I., 219  
Komber, H., 75  
Köthe, M., 75  
Krishna Mohan, K., 247  
Kumar Mandal, A., 381  
  
Laajalehto, K., 97, 193  
  
Laiho, T., 193  
Lampner, D., 227  
Lee, T.R., 239  
Leppinen, J., 193  
Li, J., 227  
Liu, H.-G., 325  
Li, Y., 87  
Lu, Y., 137  
  
Marti, O., 65  
Ma, S., 115  
Miller, J.D., 103, 137  
Miura, Y.F., 239  
Mizutani, W., 219  
Morneau, A., 293  
Morse, D., 167  
Müller, M., 75  
Murata, T., 157  
  
Nalaskowski, J., 103  
Naohara, H., 201  
Nigam, S., 293  
  
Ogiso, H., 219  
Oliveira, J.F., 127, 209  
Oliveira, R.C.G., 127  
Oshanin, G., 25  
Osseo-Asare, K., 309  
  
Pavan, P.C., 397  
Peden, C.H.F., 187  
Perry, S.S., 239  
Pillai, V., 293  
Prestidge, C.A., 341  
Pungor, A., 53  
  
Qian, D.-J., 325  
Quintus, M., 65  
  
Ralston, J., 387  
Reed, M.G., 247  
Richmond, G.L., 175

- Saraiva, S.M., 209  
Scott Fogler, H., 247  
Seng, W.P., 363  
Shelden, R.A., 87  
Shotri, S., 409  
Simon, F., 75  
Somasundaran, P., 409  
Stifter, T., 65  
Stuart, J.K., 53  
Suoninen, E., 97  
Suter, U.W., 87  
  
Takei, T., 13  
Takenaga, M., 239  
  
Tam, K.C., 363  
ter Horst, J.H., 257, 271  
Thomas, J.C., 341  
Tokumoto, H., 219  
  
Uosaki, K., 201  
  
Valignat, M.P., 25  
Valim, J.B., 397  
van Rosmalen, G.M., 257, 271  
Varvarin, A.M., 283  
Veeramasuneni, S., 103, 137  
Velten, U., 87  
Verbeiren, P., 149  
  
Voué, M., 5, 25  
  
Walker, R.A., 175  
Waschipky, H., 65  
Watanabe, T., 13  
Winnik, F.M., 293  
Winter, R.M., 115  
Witkamp, G.J., 257, 271  
Wong Fong Sang, K.E., 271  
  
Xue, Q.-B., 325  
  
Ye, S., 201  
  
Ziolo, R.F., 293

## Subject Index

- Adhesion, 53
- Adhesive force, 157
- Adsorption, 257, 271, 283, 397
- Adsorption energy, 271
- Adsorption isotherms, 257
- Adsorption sequences, 149
- AES, 187
- Aluminium hydroxide, 387
- AOT, 157
- Atomic force microscope, 157
- Atomic force microscopy, 103, 239
- ATR-FTIR spectroscopy, 75
  
- BAM, 325
- Bayer liquors, 341
- Benzotriazole (BTA), 227
- Bubble-drop attachment, 127
- Butane gas, 137
  
- Calcium fluoride, 257, 271
- Capillary electrophoresis, 293
- Chemisorption, 75
- Coagulation, 149
- Coal, 103
- Coating, 75
- Colloidal particle deposition, 115
- Colloids, 247
- Compositions and resolved spectra of the dye aggregates, 381
- Concentration induced metachromasia, 381
- Corrosion inhibition, 227
- Cryovitrification, 387
- CuCe oxide catalysts, 333
  
- Dewpoint error technique, 33
- Diffusion, 301
- Dioxane, 157
- Dissolved gas flotation, 127
- DLPC, 175
- Dodecylamine hydrochloride, 103
- Dynamic light scattering, 341
  
- Electrochemical atomic force microscope (AFM), 227
- Electrochemical deposition, 201
- Electrochemical quartz crystal microbalance (EQCM), 201
- Electrode potential, 193
- Electrophoretic mobility, 293
- Epoxide, 75
- EPR, 333
- Eu complex, 325
  
- Ferrofluids, 293
- Flotation efficiency, 127
- Fluorescence, 325
- Fluorination, 239
- Force microscopy, 219
- Fossil resin, 103
- Friction, 239
- FTIR, 193
- FT-IR/ATR, 115
  
- Galena (PbS), 97
- Gibbs adsorption equation, 351
- Gibbsite crystallisation, 341
- Gibbsite nucleation, 387
- Gierst model, 149
- Gold, 219
- Gold single crystal electrode, 201
- Growth, 341
- Growth from surface, 87
  
- Heat of immersion, 13
- Heterogeneous polymers, 65
- H<sub>2</sub>S adsorption, 333
- Hydrolysis, 309
- Hydrophobicity, 283
- 12-Hydroxystearic acid, 301
  
- In situ scanning tunneling microscopy (STM), 201
- Interaction force, 157
- Interaction forces, 103
- Interface, 167

- Layered double hydroxides, 397  
Liquid/solid interaction, 5  
Lubricating grease, 301
- Magnetic memory, 167  
Mesoscopic, 25  
Microdroplets, 25  
Microspheres, 103  
Modified glass surfaces, 53  
Molecular droplets, 87  
Molecular dynamics technique, 5  
Molecular modeling, 271  
Monolayer, 239  
Monolayer collapse, 209  
Monolayers, 209, 325  
Monolayers stability, 209
- Nanoparticles, 309  
Nanostructure, 219  
NMR, 301  
Non-aqueous solution, 157  
Nucleation, 309, 341
- Oily water cleaning, 127  
Oxide surface, 75  
Oxygen/argon sputtering, 33
- Palladium, 201  
Particle migration, 247  
Permeability, 247  
Phase-separation, 219  
Phospholipid monolayer, 175  
Photoelectron spectroscopy, 97  
Pitting corrosion, 227  
Point of zero charge, 103, 149  
Polyelectrolytes, 257, 271  
Polymer, 363  
Polyoxyethylene nonphenyl ether, 309  
Polystyrene-grafted mica, 87  
Porous media, 247  
Potassium, 187  
Pressure, 351  
Principal component analysis, 381  
Pull-off forces, 53  
Pulsed force mode, 65  
Pyrite, 193
- Quartz, 33
- Reactive polymer, 75  
Rheological properties, 363
- Scanning electron microscopy, 115, 397
- Scanning probe microscopy, 65  
Scanning tunneling microscopy, 219  
Self-assembled monolayer, 219  
Silica, 309  
Silica gel, 283  
Silica powder, 13  
Silica surface, 75  
Silicon, 137  
SiO<sub>2</sub> characterization, 33  
Smectites, 247  
Sodium aluminate solutions, 387  
Sodium dodecylsulfate, 103, 397  
Solvent, 175  
Stains-all, 381  
Stearic acid, 209  
Striped phase, 219  
Substrate, 25  
Surface, 137  
Surface charge, 293  
Surface modification, 13, 75  
Surface potential variations, 333  
Surface pressure, 351  
Surface reactivity, 75  
Surfactant, 397  
Surfactant solutions, 363  
Suspension stability, 103  
Synchrotron radiation, 97
- TEOS, 309  
Terminal epoxide groups, 53  
Terminal olefins, 283  
Tetraethoxysilane, 309  
Thin films, 25  
TiO<sub>2</sub>, 187  
Transmission electron microscopy, 387  
Trimethyl-substituted silanes, 283  
Triton X-100, 381  
Tungsten trioxide hydrosol, 149
- Vapour adsorption, 351  
Viscosity, 25
- Water, 167  
Water vapor adsorption, 13  
Wettability, 13, 239, 351  
Wetting phenomena, 5  
w/o microemulsion, 309
- XPS, 193, 333
- Zeta potential, 103